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MDC-MDNR-CORPS Partnering Meeting

March 2, 2004

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US Army Corps of Engineers®

Rock Island District

Gary Loss, P.E.

Deputy for Programs & Project Management

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Geographic Boundaries Rock Island District

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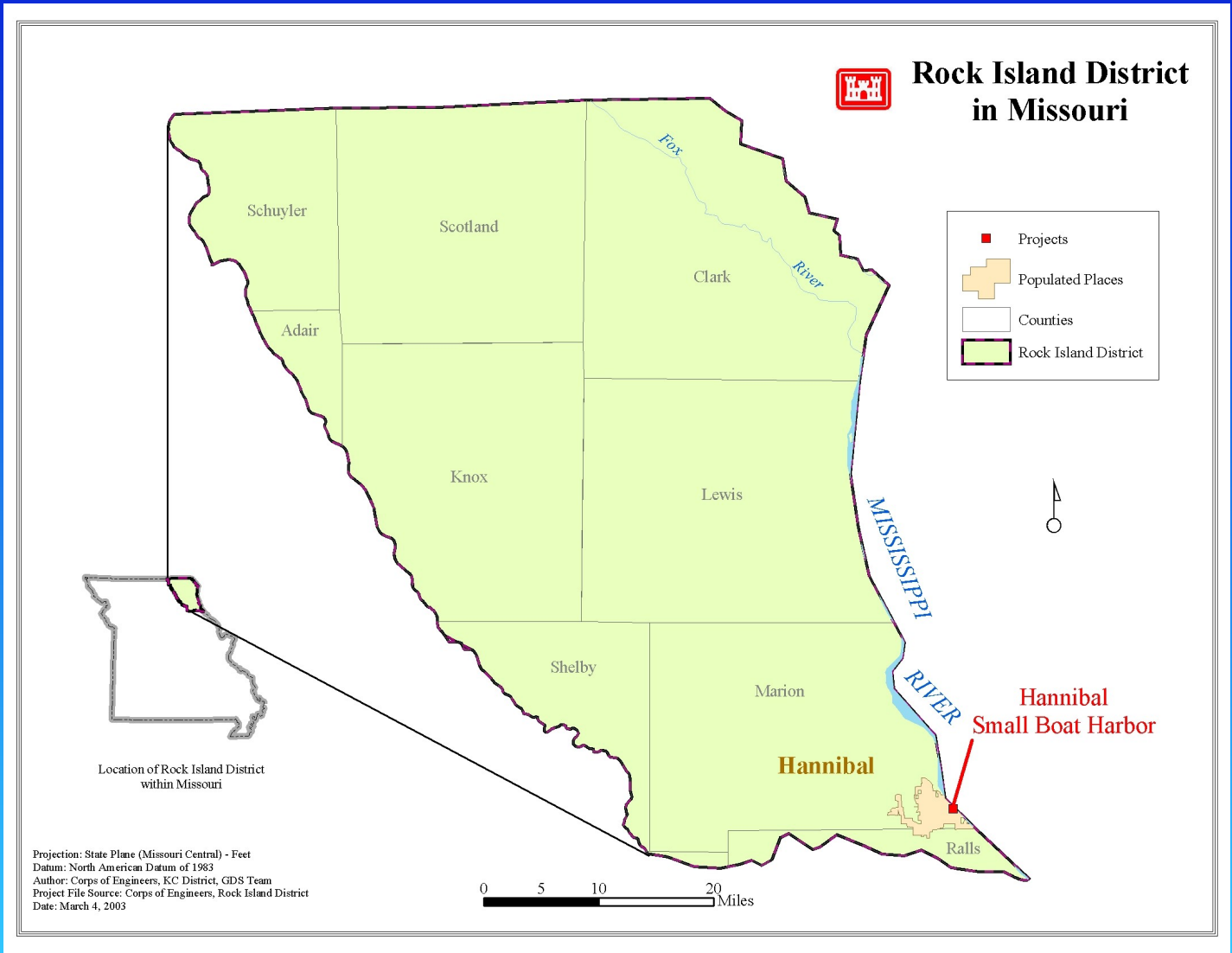
Geographic Boundaries



Rock Island District Activities FY04 & FY05

TECHNICAL ASSISTANCE PROGRAMS

Floodplain Management Services

Hannibal, MO

FY04 $46.1K

- Special Flood Hazard Study for Bear Creek & 3 of Its Tributaries
- Remaining Funds will be Used to Finish Modeling & Develop a Floodplain Report

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Rock Island District Activities FY04 & FY05

TECHNICAL ASSISTANCE PROGRAMS

FEMA Support

Floodway Computation

FY04 $997K

- Compute Floodway by River Cross-Section for 815 Miles of the Upper Mississippi River
- Project Has Been Fully Funded by FEMA
- Scheduled to be Completed in Late FY04

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Rock Island District Activities FY04 & FY05

COMPREHENSIVE PLAN

FY04 $1.3M

FY05 $944K

- Develop Systemic Plan for Flood Damage Reduction
- Current & Out-Year Funding Schedule Doesn't Allow for Completion Consistent with 3-Year Study Duration

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Study Background 1993-2000

- Feasibility Study started in 1993
- Original Study focused on reducing congestion on the system
- Ecosystem Restoration not part of study
- No Draft Feasibility Study completed
- No Formal Corps Recommendation

Restructured Study Aug 01

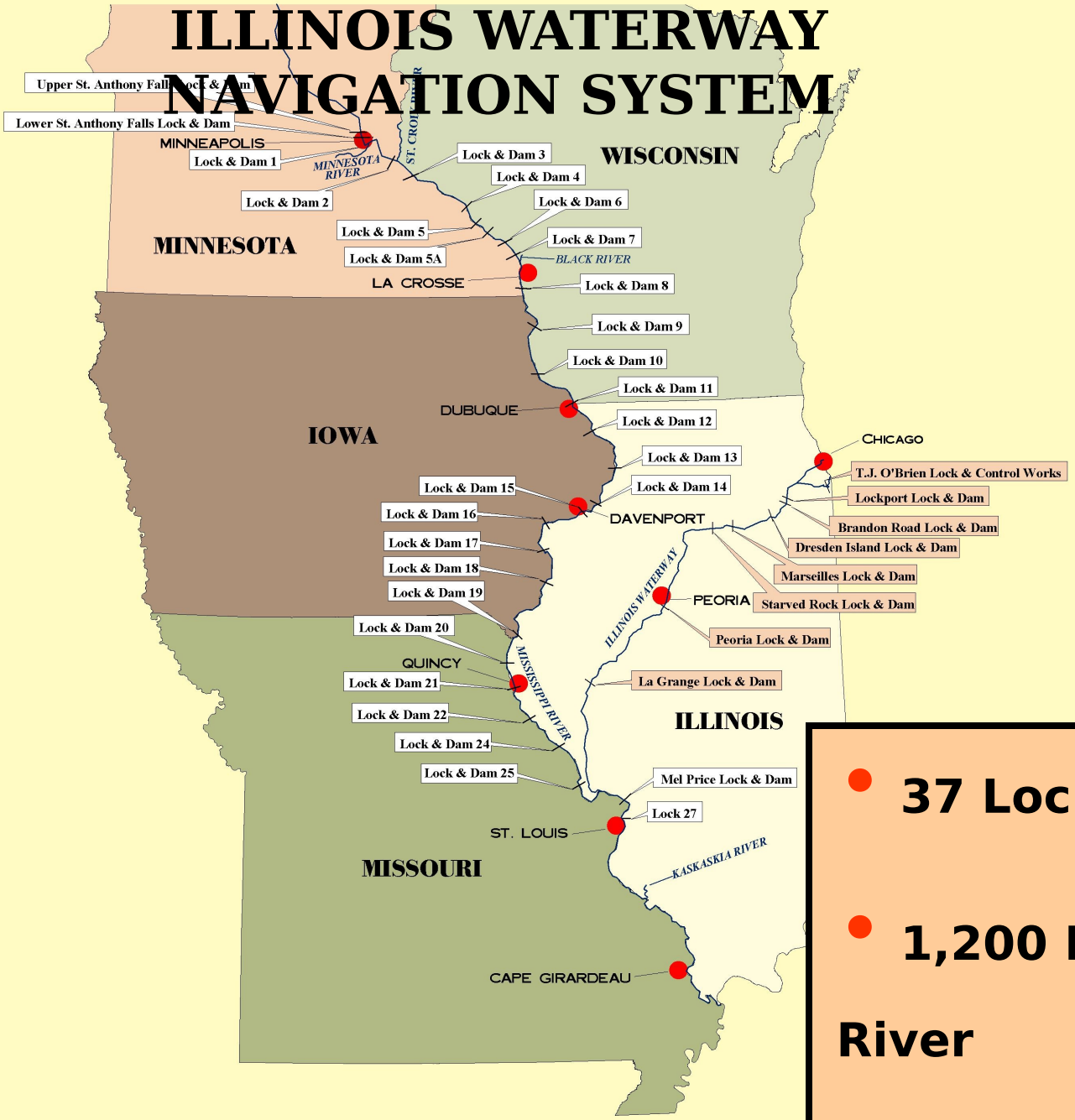
- **Scope:** Focus on authorized Federal navigation projects and the ecological and floodplain resources that are affected by these projects.
- **Objectives**
  - Improve Navigation Efficiency.
  - Achieve environmental sustainable system.
  - Address ecosystem, floodplain

COLLABORATION

"To seek long-term sustainability of the economic uses and ecological integrity of the Upper Mississippi River System"

PUBLIC **NGO's**

UPPER MISSISSIPPI RIVER – ILLINOIS WATERWAY NAVIGATION SYSTEM



- **37 Lock Sites**
- **1,200 Miles of River**

Current Status

Identify Problems and Opportunities

Inventory and Forecast Resource Conditions

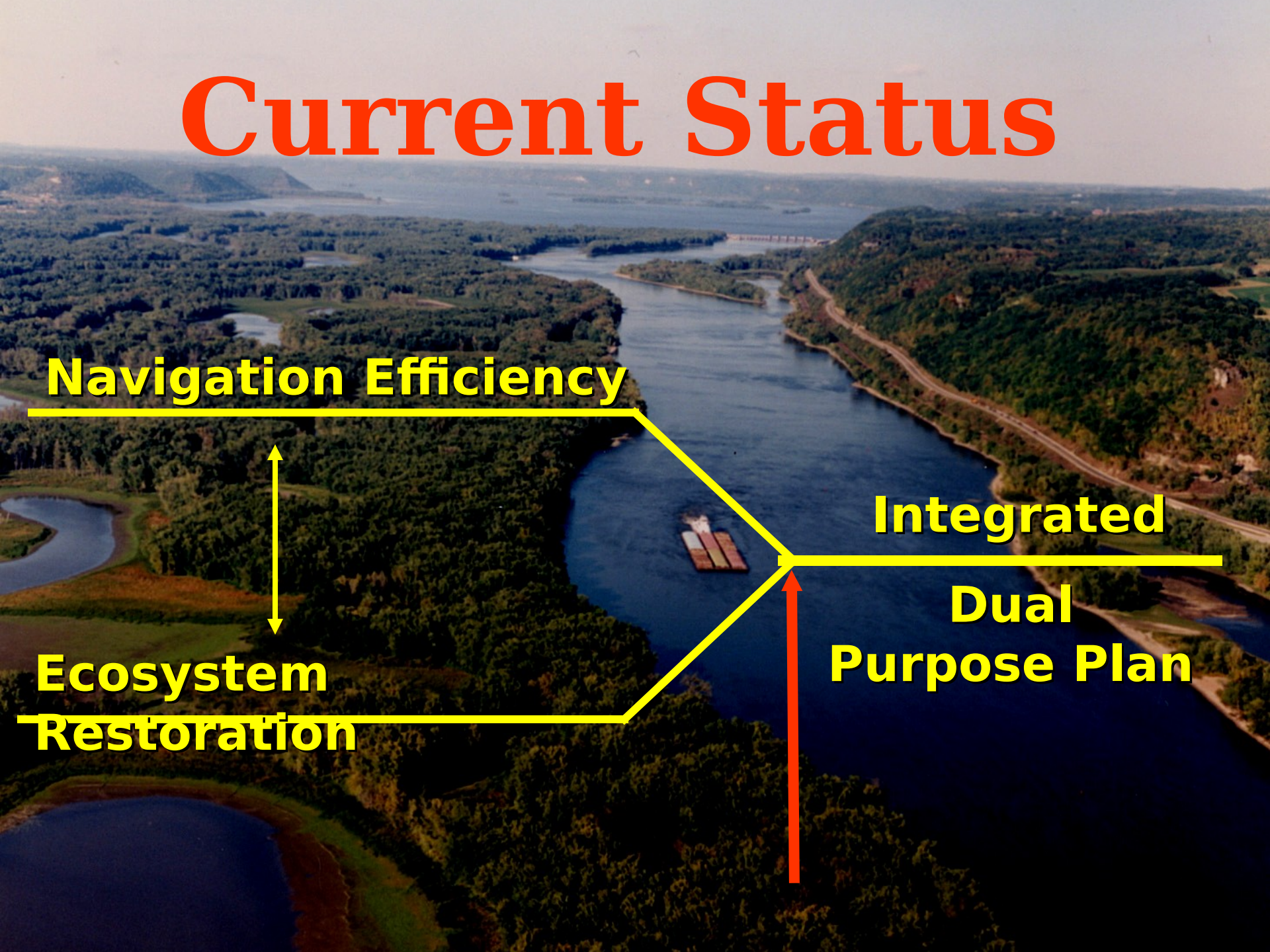
Formulate Alternative Plans

Evaluate Alternative Plans

Compare Alternative Plans

Select Recommended Plan

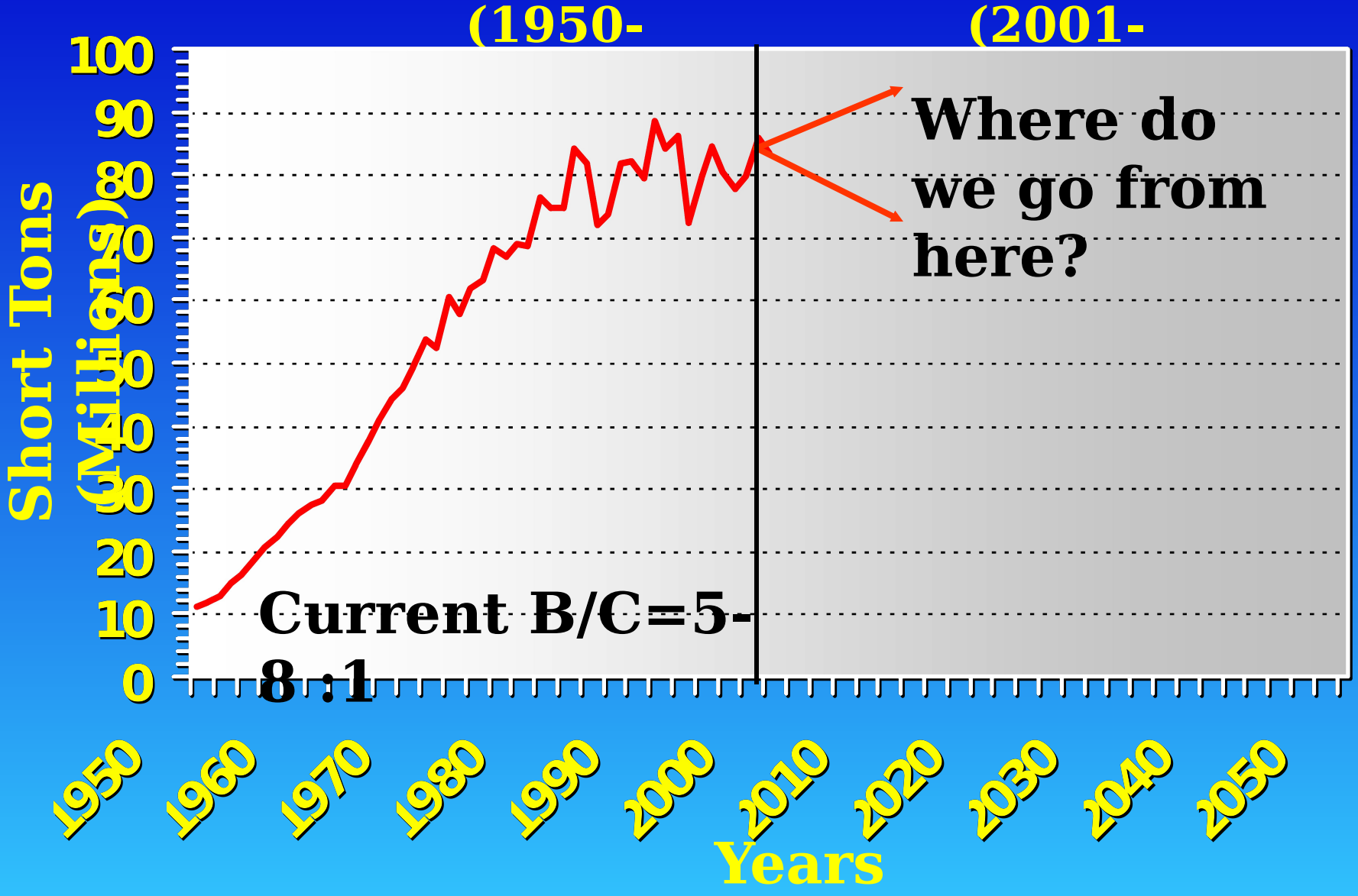
Current Status



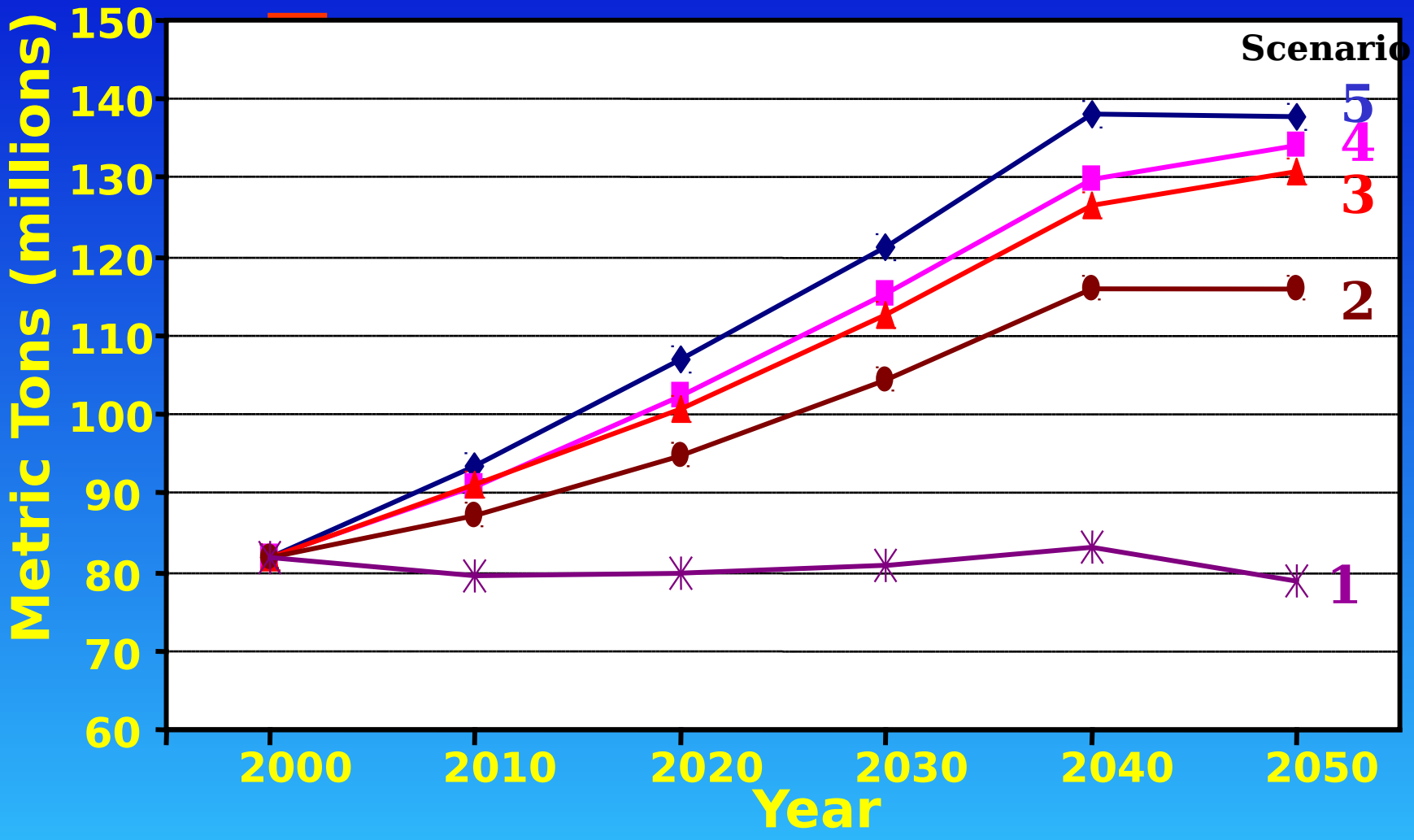
Inventory of Existing Conditions

Site	Utilization	Avg. Delay (hrs)
Lock 20	70%	2.9
Lock 21	73%	2.6
Lock 22	80%	4.5
Lock 24	76%	3.6
Lock 25	76%	4.5

Future Conditions



Traffic



SPARKS COMPANIES INC.

Navigation Efficiency Draft Tentatively Selected Plan

- **Uncertainity**
  - ✓ **Demand Forecasts**
  - ✓ **Demand Elasticity**
- **Model Limitations**
- **Long Term Implementation>30 years**
- **Risk**
  - ✓ **Over Building**
  - ✓ **Under Building**

Navigation Efficiency Draft Tentatively Selected Plan

Approve Conceptual Framework that Blends Alt 4 & 6

Authorize and Implement Alternative 4 at $84 M:

- **Mooring facilities @ 12, 14, 18, 20, 22, 24 and LaGrange**
- **Switchboats @ 20-25**
- **Initiate mitigation for effects based on alternative 4**
- **Continue development and testing of an appointment scheduling system.**

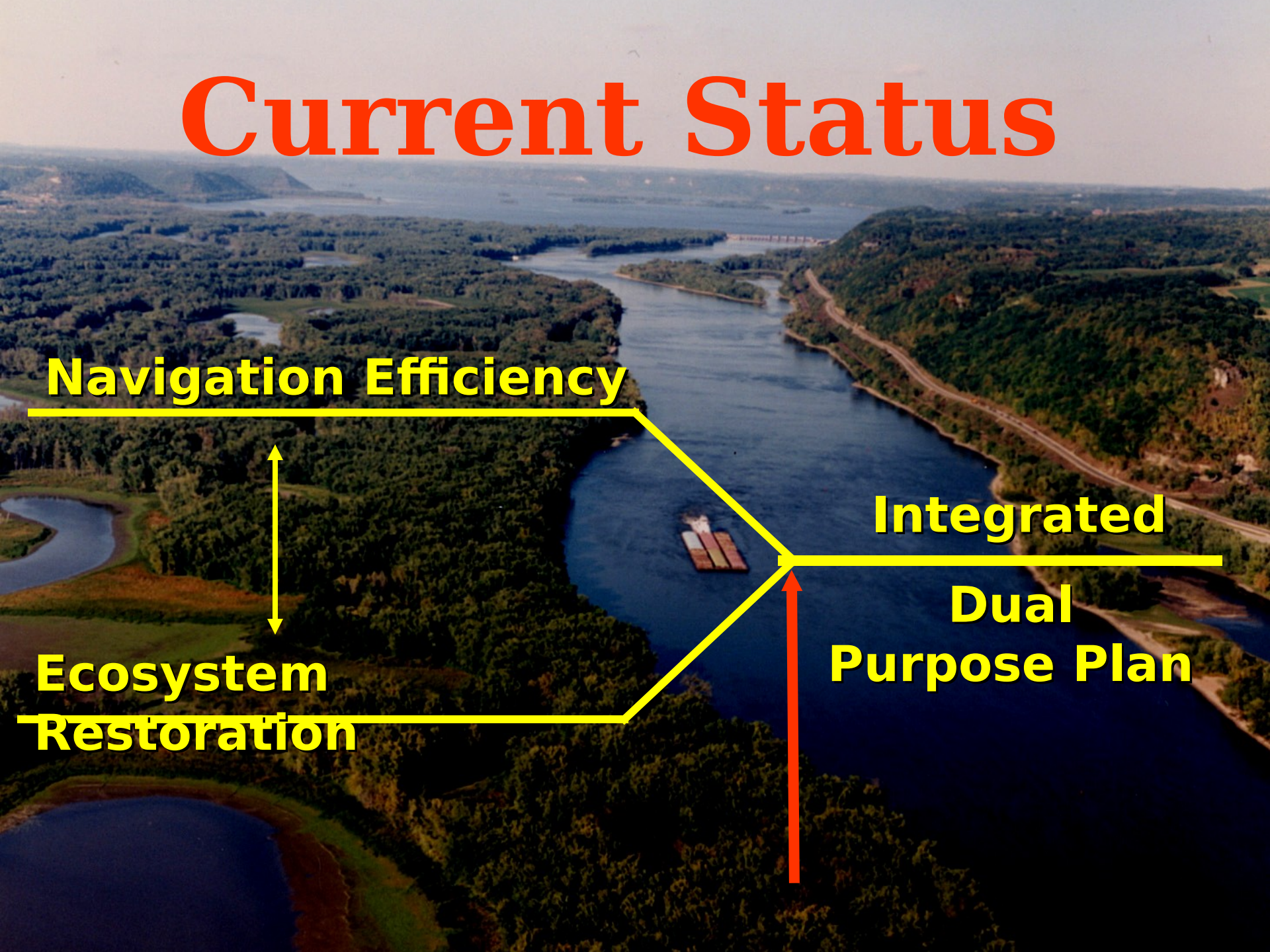
Navigation Efficiency Draft Tentatively Selected Plan

Approve Conceptual Framework that Blends Alt 4 & 6

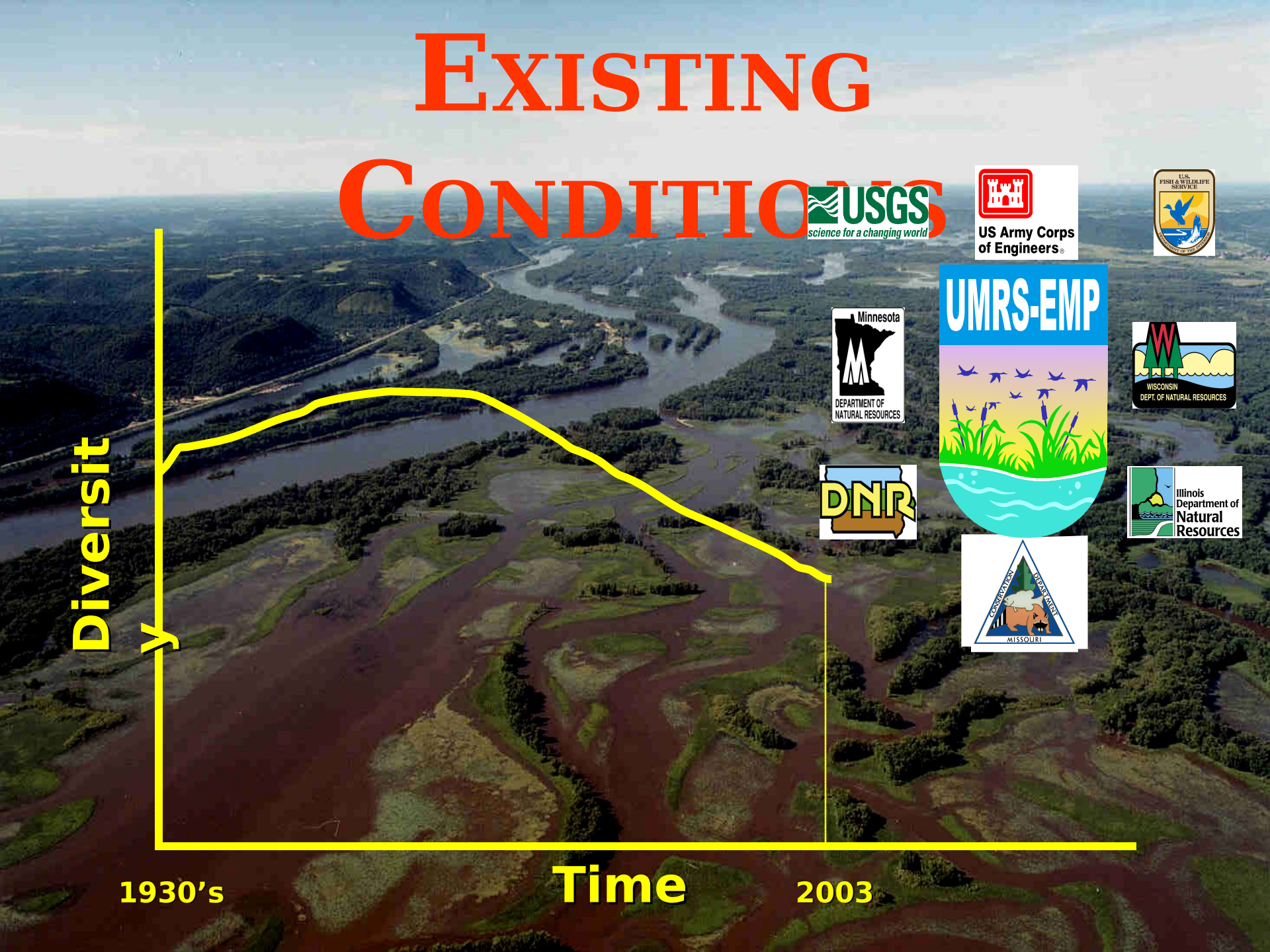
Recommend Approval of Alternative 6 at $2.3 B as a framework to include:

- **Adaptive management concepts**
- **Checkpoints requiring Congressional approval**
- **Continued monitoring of economic factors**
- **Initiation of Planning, Engineering and Design (PED)**

Current Status

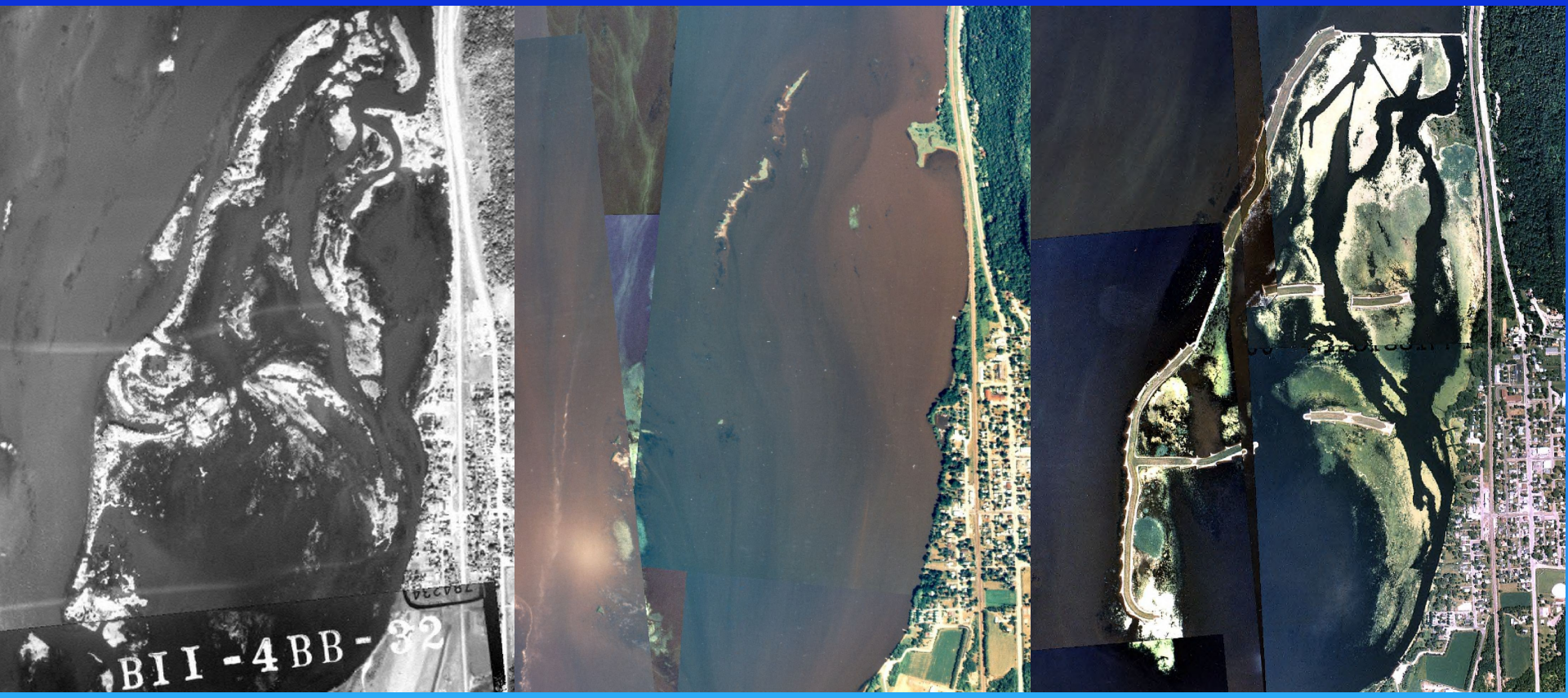


Existing Conditions



Loss of Habitat

Pool 8 Islands near Stoddard, Wisconsin

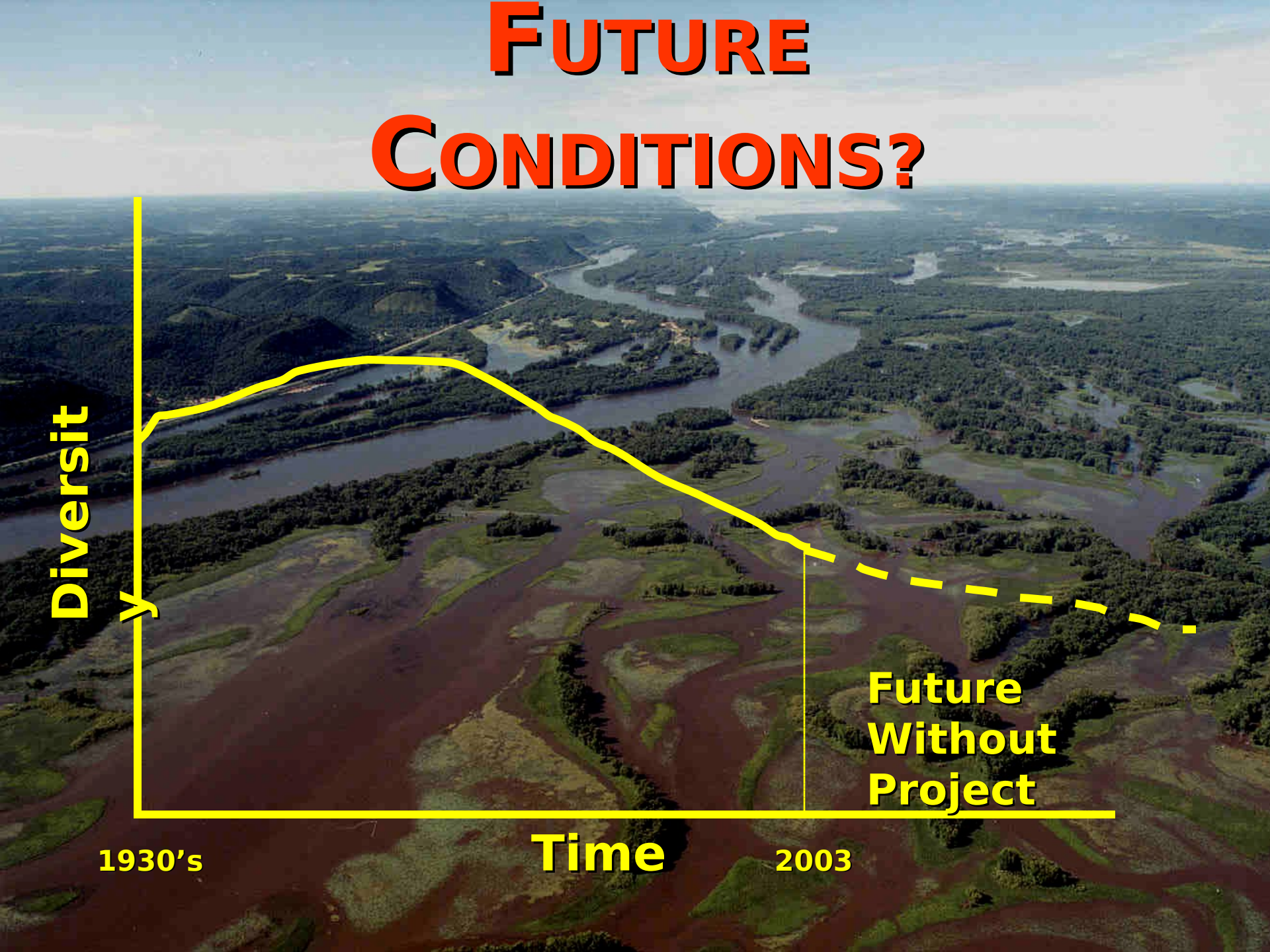


October 1961

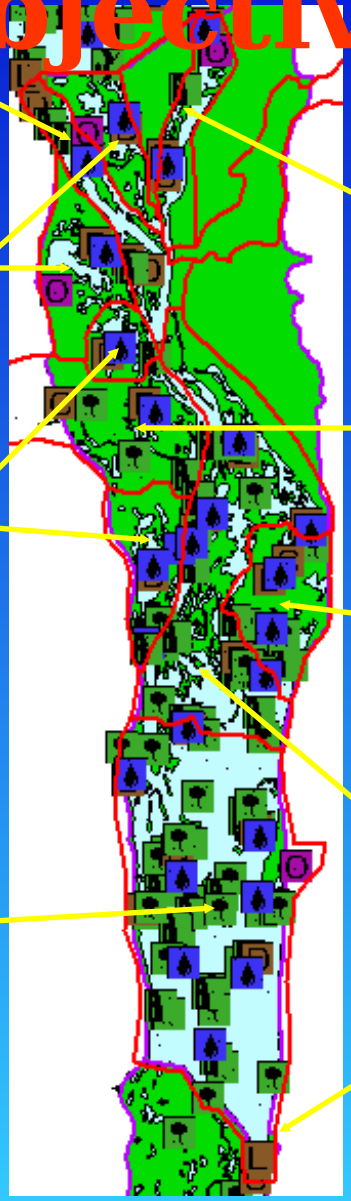
August 1994

August 2000

Future Conditions?



Ecosystem Sustainability Objectives



Navigation Pool 8

Terrestrial Area Prot.

Backwater Depth / Habitat Restoration

Backwater Depth

Bathymetric Diversity / Habitat Restoration

Backwater Depth / Aquatic Area Rest.

Habitat Restoration

Backwater Depth / Connectivity

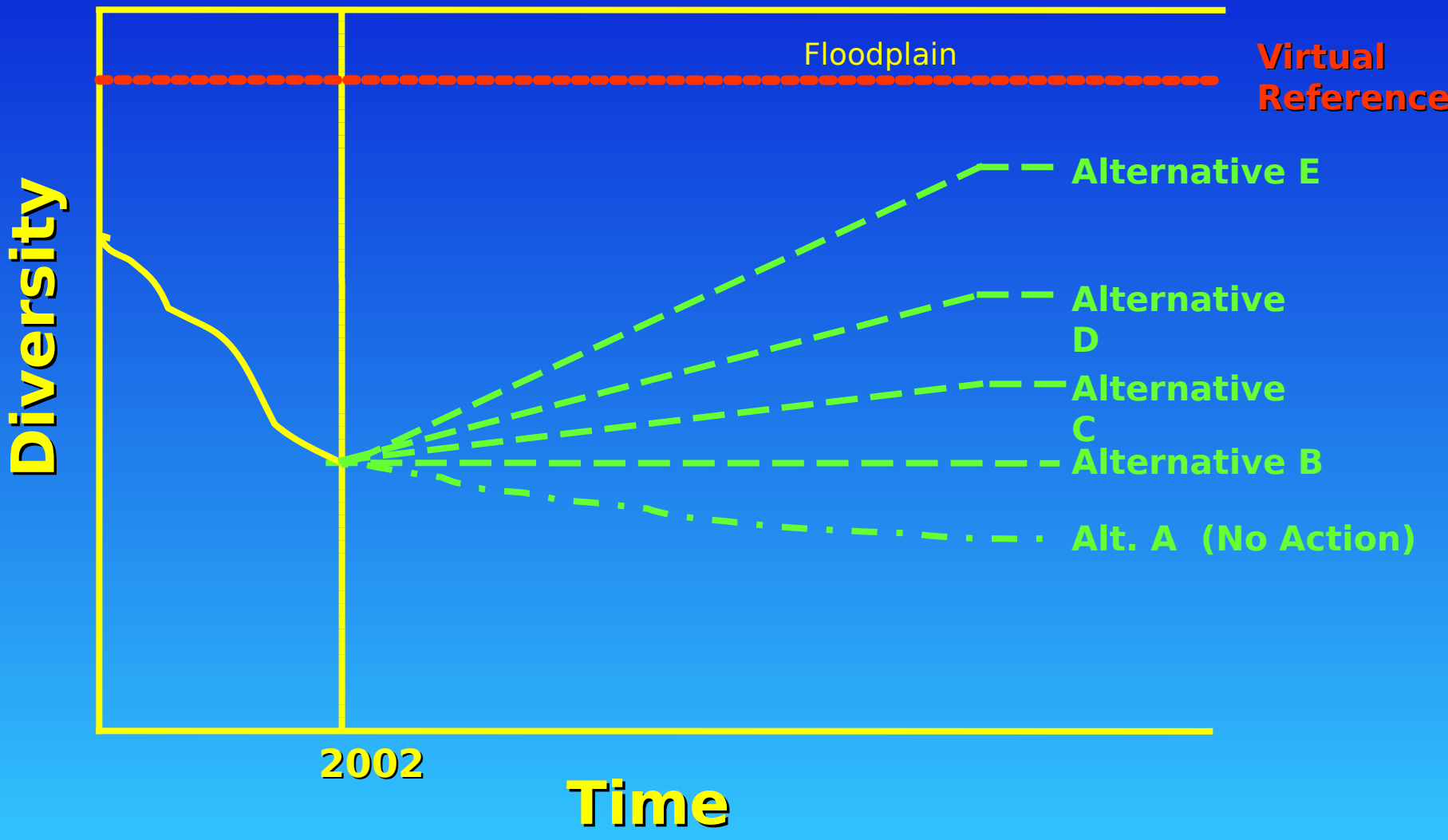
Terrestrial Area Prot. / Habitat Restoration

Naturalize Hydrology

Ecosystem Restoration Measures

- Island Building
- Fish Passage
- Floodplain Restoration
- Water Level Management
- Backwater Restoration
- Side Channel Restoration
- Wing Dam/Dike Alteration
- Island/Shoreline Protection
- Topographic Diversity
- Dam Point Control

Ecosystem Restoration Alternatives



** *Not to Scale – Illustrative Purposes*

Ecosystem Restoration Tentative Recommendation

Approve Conceptual Framework of Alternative D* $ 5.3 Billion 50-yr Plan

- **Authorize Initial Incremental (@7-12Yrs) Strategy; Develop with Stakeholder**
  - ✓ **Best return on investment**
  - ✓ **Best gains in diversity**
  - ✓ **Additional knowledge required to guide future investments**
- **Additional Implementation Strategies under consideration**
- **Programmatic and project specific authority**

Ecosystem Restoration Tentative Recommendation

Approve Conceptual Framework of Alternative D* $ 5.3 Billion 50-yr Plan

- **Report back to committee after 7-12 Yrs**
  - ✓ **Assessment of program**
  - ✓ **Recommendations for modifications**
  - ✓ **Potential further authorization**
- **Cost sharing option C**
  - ✓ **100% Federal on project lands, NWR, & other specific lands**

Feasibility Study Schedule

- Alternative Formulation Briefing — Feb 04
  - Tentative Recommended Plan Identified
- Draft Feasibility Report — Apr 04
- Stakeholder & Public Review — May - Jul 04
- Public Meetings — Jun 04
- Final Feasibility Report w/EIS — Sep 04
- NRC Review Final Feasibility Report — Oct - Nov 04
- Chief's Report — Nov 04

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Rock Island District Activities FY04 & FY05

CONSTRUCTION

Environmental Management Program

FY04 $19M / FY05 $28M

- FY05 Budget Amount Will Significantly Enhance Program
- Funds Used for Planning & Design for 15 Sites & for Construction at 19 Sites

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Rock Island District Activities FY04 & FY05

OPERATIONS & MAINTENANCE

Navigation

- Mississippi River Locks & Dams 11-22

  FY04 $38.6M / FY05 $42.5M

  - Major Backlog of Maintenance Work Items
  - Could Adversely Impact Navigation System's Ability to Operate & Provide Service to Industry

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Rock Island District Activities FY04 & FY05

OPERATIONS & MAINTENANCE

Small Boat Harbors

- 8 of 12 Require Dredging

  FY04 Adds $335K / FY05 $0

  - Add: $47K for Ft. Madison
  - Add: $288K for Muscatine

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Points of Contact

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